S/120/63/000/001/050/072 E192/E382

AUTHOR: Abramov, A.N.

TITLE: Ultralow-frequency generator of short pulses

PERIODICAL: Pribory i tekhnika eksperimenta, no. 1, 1963,

170 - 171

TEXT: The generator is shown in Fig. 1. This is essentially a Schmitt trigger with a capacitance C_1 connected to its input grid, which is charged through the resistance R_1 . Initially, the first tube is cut off and the second tube is conducting. A regenerative changeover takes place in the circuit when a voltage sufficient for opening the first tube is reached on C_1 . Since $R_1 \geq R_2$, the voltage at the cathodes of the tubes falls

sufficiently for the potential on the grid of the first tube to be above the common-cathode potential and so C_1 discharges through the grid-cathode resistance of the first tube and the resistance R_K . The network $R_2 = R_3$ is designed so that the second tube becomes conducting when the voltage across C_1 becomes equal to

Card 1/2

Ultralow-frequency generator

\$/120/63/000/GO1/050/072 E192/E382

that of the cathode potential. The second changeover is thus attained and the circuit returns to its initial state. It is advisable to connect the thyratron across C_1 in the practical generator circuit. This reduces the discharge time of C_1 and permits reduction of the pulse duration to 0.2 μs . A circuit furnished with a thyratron was built and it was found that the frequency instability was 0.2 - 0.9% and that the mark-to-space ratio of 10 could be obtained. There are 2 figures.

ASSOCIATION:

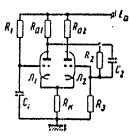
Institut fiziki AN ArmSSR

(Institute of Physics of

the ArmSSR)

SUBMITTED:

April 8, 1962



Card 2/2

Fig. 1:

KOLOMIN, Gennadiy Andreyevich; ABRAMOV, Anatoliy Nikolayevich; BUSHUYEV, Anatoliy Petrovich; GRABILIN, IU.R., Otv.red.

[Making 901 m. of drift in one month with the PK-3 cutter-loader at the Polysaeva-2 Mine] 901 m shtreka v mesiata kombainom PK-3 na shakhte "Polysaevskaia-2." Moskva, TSentr. in-t informatsii i tekhniko-ekon. issledovanii ugol'noi promyshl., 1963. 11 p. (EIRA 17:7)

ABRAMOV, A.N.; KOLOMIN, G.A.

Making 1245 m of drift with the PK-3 combine. Ugol 39 no.11:24-27 N 164. (MIRA 18:2)

1. Shakhta "Polysayevskaya-2" kombinata Kuzbassugol!.

_L_11589-66 EWT(1) IJP(c)

ACC NR: AP5027683 EOURCE CODE: UR/0051/65/019/005/0819/0812

AUTHOR: Tolstoy, N. A.; Abramoy, A. P.

ORG: None

TITLE: Nonlinear quenching of manganese chloride luminescence with increased excitation intensity

SOURCE: Optika i spektroskopiya, v. 19, no. 5, 1965, 830-831

TOPIC TAGS: luminescence quenching, luminescent crystal, luminescence center, luminophor

ABSTRACT: The authors investigate the excitation by strong light of monomolecular luminophors in the intermediate excitation intensity region where the probability of forced emission becomes equal to the probability of spontaneous emission (the case of "super-luminescence"). The radiation centers in luminescent crystals used normally for the generation of emission of superluminescence appear usually in "diluted" concentrations. The present note deals with the kinetic characteristics of luminosity in the intermediate region for a system of "undiluted" concentration of luminous centers, i.e., for monomolecular luminophors of the "pure salt" type. Measurement results are presented for the quenching time and the radiation yield as a function of the excitation intensity E UDC: 535, 373.2

ABRAMOV, A.P., inzhener; ZAKHAROV, A.G., kandidat ekonomicheskikh nauk.

More accurate calculation of haulage costs. Vest.TSNII MPS 15,
no.2:40-42 S 156. (MLRA 9:12)

(Railroads-Cost of operation)

ABRAMOV, A.P., inshener.

Monetary evaluation of improving the use of freight containers.

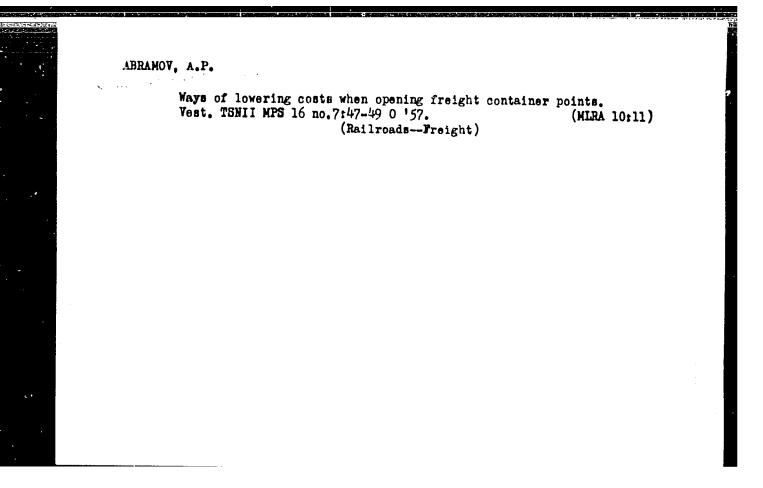
Trudy TSNII MPS no.120:67-82 '56. (NLRA 9:12)

(Railroads--Freight)

ARRAMOV, A.P.; ZAKHAROV, A.G.; KOTOV, G.V.; PERKOVA, I.N., redaktor; khirrov, P.L., tekhnicheskiy redaktor.

[Cost of hauling railroad freight and freight rates.] Sebestoimost' zheleznodorezhnykh perevozok i gruzovye tarify. Moskva, Gos.transp. zhel-dor.izd-vo, 1957. 177 p. (Moscow, Vsesoiusnyi nauchno-issledovatel'skii institut zheleznodorzhnogo transporte. Trudy, no.134). (MIRA 10:7)

(Railroads--Rates)



AFRAMOV, A.P., ingh.

Determining efficient distances for transporting freight in containers. Trudy TSNII MPS no.162:208-225 '58.

(MIRA 12:4)

(Railroads--Freight) (Containers)

ABRAMOV, A.P., kand. ekon. nauk; BARKOV, N.N., kand. ekon. nauk; SIMANOVSKIY, M.A., kand. ekon. nauk

Economic evaluation of measures for a greater efficiency of transportation. Zhel. dor. transp. 41 no.10:16-20 0 '59.

(MIRA 13:2)

(Railroads--Freight)

ABRAMOV, A.P.; KOTOV, G.V.; SHCHERBAKOV, P.D., retsenzent; GUBAREVA, N.T., red.; USENKO, L.A., tekhm. red.

[Cost of rail freight transportation and how to reduce it] Sebestoimost' zheleznodorozhnykh perevozok i puti ee snizheniia. Moskva, Vses. izdatel'sko-poligr. obmedinenie M-va putei soobshcheniia, 1961. 41 p. (MIRA 14:7)

(Railroads--Cost of operation) (Railroads--Freight)

AERAMOV, A.P., kand.ekon.nauk; YELISEYEVA, T.V., inzh.; FILIPPOVA, L.S., red.; KHITROVA, N.A., tekhn. red.

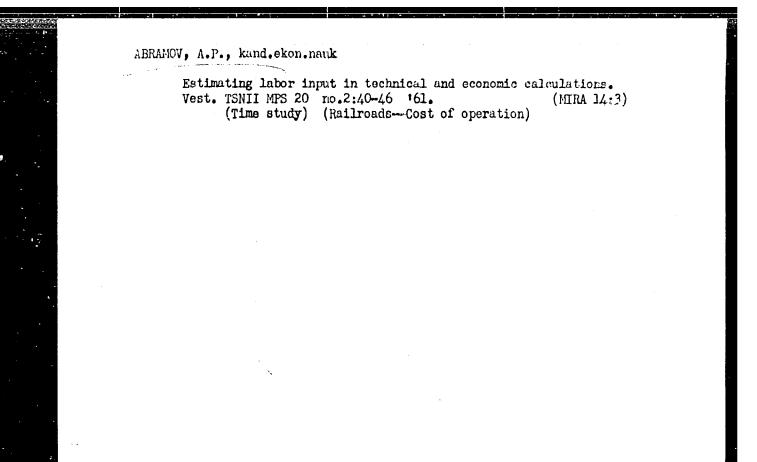
[Costs of various types of freight transportation by railroad] Sebestoimost' perevozok razlichnykh gruzov na zheleznykh dorogakh. Moskva, Vses.izdatel'sko-poligr.ob**edinenie M-va putei soobshcheniia, 1961. 27 p. (MIRA 14:12) (Railroads—Freight) (Railroads—Cost of operation)

ZAKHAROV, A.G., kand.ekon.nauk, nauchnyy sotrudnik; SHISHOV, G.A., inzh.-ekonomist, nauchnyy sotrudnik; ZAKHAROVA, Z.I., inzh.-ekonomist, nauchnyy sotrudnik; TVERSKOY, K.N., retsenzent; ABRAMOV, A.P., retsenzent; PETRUKHNOVSKIY, I.V., retsenzent; KUZNETSOV, A.N., retsenzent; KOLTUNOVA, M.P., red.; USENKO, L.A., tekhn.led.

[Economic evaluation of the operational indices of railroads]
Ekonomicheskaia otsenka ekspluatatsionnykh pokazatelei raboty
dorog. Moskva, Vses.izdatel'sko-poligr. cb"edinenie M-va putei
soob., 1961. 174 p. (Moscow. Vsesciuznyi nauchno-issledovatel'skii
institut zheleznodorozhnogo transporta. Trudy, no.218)

(MERA 15-1)

1. Sektor ekonomiki Ural'skogo otdoleniya Vsesoyuznego mauchnoissledovatel'skogo instituta zheleznodorozhnego transporta (for Venkaro , Shisho , Zekharova). (Railrondu -Cost of operation)



ABRAMOV, A.P., kand.ekonom.nauk; YELISEYEVA, T.V., inzh.

Improving the railroad transportation rates. Vest.TSNII MPS 20 no.5:52-55 '61. (MIRA 14:8)

(Railroads-Rates)

YELISEYEVA, T.V., inzh.; AERAMOV, A.P., kand.ekon.nauk

Need for more flexible methods for the calculation of transportation costs ("Calculation and analysis of railroad transportation costs" by V.N.Orlov, A.S.Chudov. Reviewed by T.V.Eliseeva, A.P. Abramov). Zhel.dor.transp. 43 no.2:94-96 F '61. (MIRA 14:4)

(Railroads—Cost of operation)

(Orlov, V.N.) (Chudov, A.S.)

ABRAMOV, A.P.; KOTOV, G.V., kand.ekonom.nauk

Some economic problems of the utilization of the new types of traction. Zhel.dor.transp. 44 no.8:37-41 Ag '62. (MIRA 15:8)

(Railroads--Costs of operation)

ABRAMOV, A. P., kand. ekonom. nauk; SIMANOVSKIY, M. A., kand. ekonom. nauk; TRUBIKHIN, M. G., kand. ekonom. nauk; FLEISHMAN, F. M., kand. ekonom. nauk

Ways of improving the planning and material incentive in railroad management. Zhel. dor. transp. 45 no.1:55-60 Ja '63. (MIRA 16:4)

(Railroads—Management)

ABRAMOV, A.P., kand.ekonom.nauk

Potentials for a further reduction of operation costs for passenger transportation. Zhel.dor.transp. 45 no.8:21-25 Ag 163. (MIRA 16:9)

(Railroads-Cost of operation)

ABRAMOV, A.P., kand.ekonom.nauk

Methods for the financing of the initial and final operations. Zhel.-dor.transp. 45 no.12:21-23 D *63. (MIRA 17:2)

ABRAMOV, A.P., kand.skonom.nauk; IZOSIMOV, A.V., kand.skonom.nauk

Utilization of the rolling stock and cost reduction in passenger traffic.

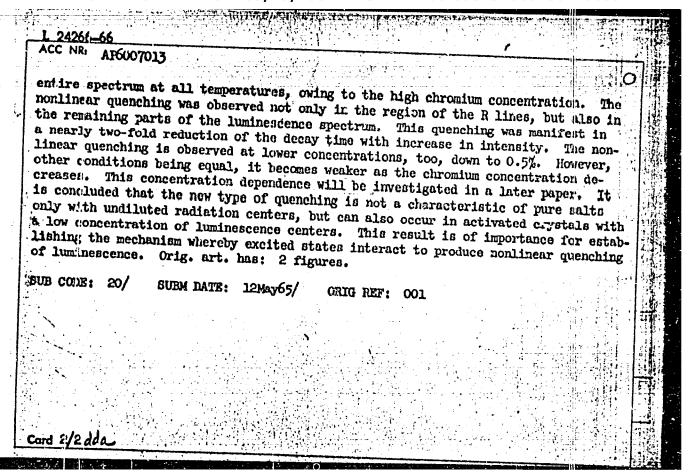
Zhel.dor.transp. 46 no.ll:15-22 N *64.

(MIRA* 18:1)

ABRAMOV, A.P., kand.ekon. nauk; YELISEYEVA, T.V., kand. ekon. nauk

Potentials for reducing the maintenance costs of passenger cars. Vest. TSNII MPS 24 no.6:10-14 165. (MIRA 18:9)

ATPRIAD. TOTAL A A.		JR/0051/66/020/	002/0345/0	346
AUTHOR: Tolstoy, N. A.; Abramov, A. F				33
ORG: none	and the second	, n	લાક ભા	B
TITLE: Monlinear quenching of the lum	nescence of milw) Nnder intense	ovaldada	$ \cdot $
SOURCE: Optika i spektroskopiya, v. 2	0. no. 2. 1966. 34	5_Zh6	excitation	
MOPIC TAGS: ruby, luminescence quench absorption, activated crystal, relaxat cence spectrum	1		ion, light nce, lumin	es-
ABSTRACT: This is a continuation of exhere a new type of luminescence quenche ited centers, was discovered. To check the contents, was discovered. To check the initial act of absorption of the contents to determine whether nonlinear quadiation centers are diluted. The test aining a high concentration of chromius and relaxation, using the same experimentals method for measuring yield was emported to the decay time of the R looth weak and intense excitation, of the intensity of the excitation light.	ok whether this no existing light, the senching occurs in sets were made on point (2.5%). Measure ental apparatus as apployed, and will apparatus, and will apparatus, and will apparatus.	states which cauthors carried the activated by where described in the earlier described in the carried and the	between exing is con- originate in out expension out expen	in pri- phose pn- ield



1 27208-66 EWT(1) IJP(c)		
ACC NR: AP6011567	SOURCE CODE: UR/0051/66/020/003/049/5/0498	
AUTHOR: Abramov, A. P.	36	
ORG: none		
ITILE: On the possible theo	oretical interpretation of nonlinear quenching	
	piya, v. 20, no. 3, 1966, 496-498	
TOPIC TAGS: luminescence qu	enching, photoluminescence, luminor, linear effect, luminescence center, quantum	
	ns theoretically a new type of photolumines- of the third kind or nonlinear quenching)	
1. 19, 830, 1965) in luminor langanese chloride) are acti	s of the type of pure salts (uranyl salts,	•
conlinear quenching, on the tate migrates over the lumi	basis of the assumption that the excited	
	e excited state is sufficiently large. The can be transferred not only to a non-excited	
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L 31507-66 EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JG

ACC NR: AP6013037 SOURCE CODE: UR/0051/66/020/004/0742/0744

AUTHOR: Tolstoy, N. A.; Abramov, A. P.; Abramova, I. N.

ORG: none

TITLE: Binary centers produced by light in uranyl salts

SOURCE: Optika i spektroskopiya, v. 20, no. 4, 1966, 742-744

TOPIC TAGS: uranyl nitrate, uranium compound, luminor, luminescence center, fluorescence quenching, low temperature research, relaxation process, excited state, LIBHT EXCITATION

ABSTRACT: This is a continuation of earlier work (Opt. i spektr. v. 20, 496, 1966 and earlier), dealing with a newly observed nonlinear extinction of monomolecular luminors when exposed to high-intensity light. This extinction is strongly pronounced in uranyl salts. The present note reports another unique phenomenon observed by the authors in uranyl salts excited with ultraviolet at low temperature, wherein prior excitation with a strong uv dose at liquid-nitrogen temperature causes a decrease in the stationary glow brightness and the relaxation time. This decrease is ascribed to the formation of some centers in the uranyl salt. These centers remain stable so long as the temperature remains low. The phenomenon was

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ACC NR: AP6013037

observed in uranyl sulfate, uranyl nitrate, and cesium-uranyl nitrate, and was strongest in the latter. Measurements of the relative relaxation times and an analysis of the data indicate that the formation of the centers is a nonlinear process, and that the centers are binary combinations of excited state, but an explanation of the effect calls for more research. Orig. art. has: 1 figure

SUB CODE: 20/ SUBM DATE: 27Sep65/ ORIG REF: 003

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"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000100210005-2

L 04829-67 EWP(1)/EWT(m) ACC NRI AP6026968 SOURCE CODE: UR/0051/66/021/002/0171/0177 AUTHOR: Tolstoy, N. A.; Abramov, A. P. ORG: none TITIE: Luminescence of uranyl salts at an increased level of optical excitation SOURCE: Optika i spektroskopiya, v. 21, no. 2, 1966, 171-177 TOPIC TAGS: uranium compound, luminescence center, luminescence quenching, UV irradiation, LIGHT EXCITATION ABSTRACT: The kinetics of photoluminescence of uranyl salts at an increased excitation level were studied by using IFK-120 and ISK-25 flash lamps with a UFS-2 ultraviolet filter. The salts were coarsely crystalline powders of Cs[UO2(NO3)3], UO2.SO4.2H2O in the form of layers held between quartz plates, and also UO2(NO3)2.6H2O in the form of a thin layer fused in between quartz plates. The relaxation time T and relative yield n were found to decrease with rising excitation intensity. It is shown that this phenomenon cannot be accounted for by the heating of the luminophor under the influence of the exciting light, but constitutes a new type of quenching ("quenching of the third kind") due to an increase in the probability of nonradiative transitions with increasing concentration of the excited luminescence centers. The observed phenomena cannot be alternatively interpreted as being the result of an increase in the probability of radiative transitions or of an apparent decrease in Card 1/2 UDC: 535,37

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ACCESSION NR: AP3000587

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AUTHOR: Toistoy, N. A.; Abremov, A. P.

TITLE: Kinetics of emission of chronium <u>luminophors</u> VII. The ruby (Fart 3) On the interaction of chronium ions. Steady-state emission

SOURCE: Optika i spektroskopiya, v. 14, no. 5, 1963, 691-699

TOPIC TAGS: luminescence of ruby

TEXT: The seventh article in a series on the kinetics of emission of chromium luminophors reports the results of quartitative studies of the ratio of steady-state emission intensity of side lines ("dimer" emission) to main doublet emission intensity ("monomer" emission) in finely powhered ruby (microcrystals grown from solutions) having various Cr concentrations. This ratio increases with concentration, first linearly and then "superlinearly." The intensity of the linear section can be explained on the basis of dimer "density" theory only if it is assumed either that the absorption of the excitation light is 10 times greater for dimers that for exconomers or that the number of dimers is 10 times greater than statistically

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predicted. Analysis of the superlinear section shows sensitization of the dimers by the monomers, beginning at 0.25% Cr concentration. This sensitization decreases with increased temperature. An alternate explanation of the linear and superlinear sections, based on dimer properties, is offered. Monomer emission of the ruby is shown to have an extension into the long-wave region. The emission from this region increases with increased temperature. "The authors warmly thank P. P. Feofilov for his valuable discussions." Orig. art. has: 5 figures, 5 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 20Jul62 DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 007

OTHER: 000

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APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000100210005-2"

AFRAMOV, A.S.; SHEYNIN, B.I.; LEBELEV, M.V., redaktor; NOVOCHADOV, A.G., redaktor; GUROVA. O.A., tekhnicheskiy redaktor.

[Fuel, furnaces and boiler installations] Toplive, topki i kotel'nye ustanovki. Noskva, Izd-vo Ministerstva kommunal'nogo khosiaistva RSFSR, 1953. 247 p.

(Boilers)

(Boilers)

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	he "Romashka" high Atomnaya energiya,	·			
SOURCE: A	atomnaya energiya,	v. 17, no	. 5, 1964,	329-335	
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converter unit, which has been in operation at the Kurchatov Atomic Energy Institute since August 1964. The fuel used is uranium dicarbide enriched to 90% U735. Graphite and peryllium are used as reflectors. Electricity is generated by silicon-germanium semiconductor thermocouples distributed on the outer surface of the reflecsor and connected in four groups which can be connected in series or in parallel. The temperatures of the active zone and outer sur-Hace are 1770 and 1000C, respectively. The power ratings are 0.50-C.80 kW electric and 40 kW thermal, the maximum current (parallel connection) is 88 A, the neutron flux is 10^{13} neut/cm² sec in the center of the active zone and 7×10^{12} on its boundary. The reactor has a negative temperature reactivity coefficient. The equipment has high inherent stability and requires no external regulator, and little change was observed in the thermocouple properties after 2500 hours of operation In the Arms Francisco did art. Here a feet a

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ASSCCIATION: None		
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BAKUL', V.N., kand. tekhn. nauk; ABRAMOV, A.S., inzh.; SKRIPKO, G.F., inzh.

Diamond consumption in machining various brands of hard alloys. Mashinostroenie no.1:97-99 Ja-F '63. (MIRA 16:7)

(Diamonds, Industrial) (Metal cutting)

ABRAMOV, A.S.; MENDEL'SON, V.S.; FREYDIN, G.Yu.; POGOREL'SKIY, M.A.; BOEKOV, L.I.; SELEKH, V.F.

Designing die casting molds for diamond tools. Mashinostroitel¹ no.11:30-32 N ¹64 (MIRA 18:2)

MILLIONSHCHIKOV, M.D.; GVERDTSITELI, I.G.; ABRAMOV, A.S.; CORLOV, L.V.;

GUBANOV, Yu.D.; YEFREMOV, A.A.; ZHUKOV, V.F.; IVANOV, V.Ye.;

KOVYRZIN, V.K.; KOPTELOV, Ye.A.; KOSOVSKIY, V.G.; KUKHARKIN,

N.Ye.; KUCHEROV, R.Ya.; LALYKIN, S.P.; MERKIN, V.I.; NECHAYEV,

Yu.A.; POZDNYAKOV, B.S.; PONOMAREV_STEPNOY, N.N.; SAMARIN, Ye.N.;

SEROV, V.Ya.; USOV, V.A.; FEDIN, V.G.; YAKOVLEV, V.V.; YAKUTOVICH,

M.V.; KHODAKOV, V.A.; KOMPANIYETS, G.V.

High-temperature reactor-converter "Romashka." Atom. energ. 17 no.5:329-335 N '64. (MIRA 17:12)

L 6574-66 EWT(1)/EWA(h)/ETC(m) WW

ACC NR: 275025050 SOURCE CODE: UR/0286/65/000/016/0091/0091

AUTHORS: Viktorov, V. A.; Petrov, B. N.; Abramov, A. S.; Maslov, G. S.; Khokhlov, V. P.; Samsonov, G. A.

ORG: none

TITLE: Resonance level gauge. Class 42, No. 173971

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 91

TOPIC TAGS: liquid level indicator, resonator, HF oscillator, electronic vincuit

ABSTRACT: This Author Certificate presents a resonance level gauge containing a high frequency oscillator for exciting a resonance detector with a step frequency characteristic and a frequency modulator for periodic variation of the oscillator frequency in the range of the level variation. To increase the accuracy of discrete measurement of the liquid level at given points, the device is provided with tank circuits excited by the oscillator at the same time with the detector. The tank circuits are tuned to the frequencies determined by the given values of the measured level. With the coincidence of the resonance frequency of the signal

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B

L 6574-66

ACC NR: AP5025050

from the tank circuit is fed in parallel with the detector signal to the imputs of coincidence circuits which are connected to the signal device (see Fig. 1).

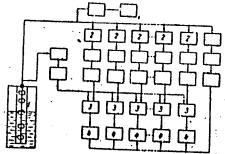


Fig. 1. 1- detector; 2- tank circuits; 3- coincidence circuits; 4- signal device

Orig. art. has: 1 diagram.

SUB CODE: EC/ SUBM DATE: 28Mar64

Card 2/2

L 7639-66 EWT(1)/EWA(h)/ETC(m) WW

ACC NR: AP5025053

SOURCE CODE: UR/0286/65/000/016/0092/0092

AUTHORS: Viktorov. V. A.; Petrov, B. N.; Abramov, A. S.; Maslov, G. S.; Khokhlov, V. P.; Samsonov, G. A.

ORG: none

TITLE: Resonance level gauge. Class 42, No. 173974

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 92

TOPIC TAGS: liquid level indicator, resonator, electronic circuit, electronic

ABSTRACT: This Author Certificate presents a resonance level gauge containing a frequency-modulated oscillator for exciting the resonance detector and tank circuits tuned to the frequencies corresponding to the discrete values of the measured level divided in height at equal intervals. To increase the accuracy of digital level measurement/With nonlinear variation of the detector and oscillator output characteristics, the gauge is provided with a device in the form of trigger counters. These counters determine the number of scale pulses from the tank circuits given off with the coincidence of the oscillator frequency and the resonance frequency of the corresponding tank circuit until the appearance of the detector

Card 1/3

UDC: 681.128.82

L 7639-66

ACC NR: AP5025053

pulse. The gauge is also provided with a device for determining the time lag of the detector pulse relative to the immediately preceding scale pulse. These devices are connected through controllable logic switch elements respectively to the output of the tank circuits and to the output of the clock oscillator (see Fig. 1).

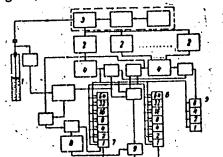


Fig. 1. 1- detector; 2- tank circuits;
3- frequency-modulated oscillator;
4- scale pulse counter; 5- counter for
time lag of detector pulse relative to
immediately preceding scale pulse;
6- logic elements; 7- switches;
8- clock oscillator; 9- counter for
determining time interval between two
scale pulses

To increase the accuracy of measurements, the gauge is provided with a device for determining the time interval between scale pulses. The device is in the form of a trigger counter connected to the clock oscillator by two electric channels with switches. One of the switches is controlled by the logic elements. The

Card 2/3

L 7639-66

ACC NR: AP5025053

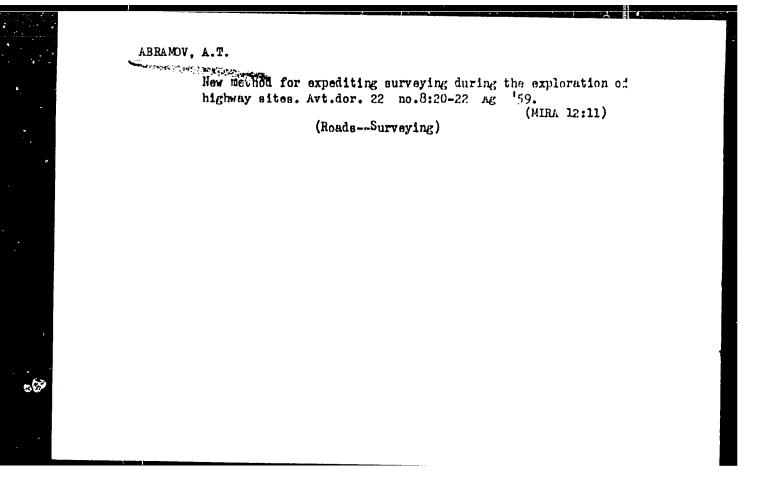
other is opened by the detector pulse and is closed by the immediately following scale pulse. Orig. art. has: 1 diagram.

SUB CODE: EC/ SUBM DATE: 28Mar64

Card 3/3

ABRUMOV, Aleksey Sergeyevich; MILOVANOV, I.V., red.; RITEKHIN, I.I., red.; SHVEDOV, A.A., red.; VADEYEV, O., red.; KLIMOVA, T., tekhn. red.

[Ethiopia, a country that has not been brought to its knees]
Efiopiia - strana, ne vstavshaia na koleni. Moskva, Gos. ind-va
polit. lit-ry, 1961. 108 p. (MIRA 14:8)
(Ethiopia-Description and travel)



8/135/62/000/003/007/00: A006/A101

estation is all and a constant

AUTHOR:

Abramov A. T., Technician

ITTLE

Electric slag welding in ship regain

FEBIODICAL: Swarechnoye profizedate, no. 3, 1962, 32 - 23

Information is given on the use of electric slag welding in unip repair using conventional semi-automatic welding machines பட-5 (PEr-5) வாய்-4 (PSn-4) with a modified holder whose flux-containing attachment was removed and whose mozzle was replaced by a prolonged one. The same materials as in secret. tional welding can be used, ramely AN-348, AN-8 and PTs-7 fluxes Ev-08 and Ev-08A wire. For the welding of steels containing up to 0.2% Cu. 0.6 - 0.9% Mg and 0.4 -0.6% S1, 1' is recommended to use wires with higher S1 and Mg content (Sv-15) Sv-1002, Sv-08HSA). To Join parts by electric slag welding, special forms are required. Best results were obtained with a ceramic form. to be used once. The part is fixed on a steel plate and Dinas brick bars with the aid of a bentonite solution prepared with liquid sodium glass. Additionally, the part is fastened to the form by sheel clamps. The finished form is precalcinated for 30 - 36 hours at 15 - 20° C. Frior to welding the part mounted in the form is preheated to 500 -

Ca 3 1/2

Electric slag welding in ship repair

3/135/62/000/003./007/009 A006/A101

600°C. Welding is conducted directly on the assembly plate at 180 - 300 m/mour wite field rate, 300 - 380 amps welding purrent, 45 - 68 v voltage. The order moves along the welding pool at a speed of 25 - 30 m/mour and 5 - 6 mm distance from the part edges. The electrode wire throat should not exceed 60 - 70 mm. The slag pool is 40 - 45 mm deep. After completed welding the form is removed, the part is then heated to 850 - 900°C for 1.5 - 2 min per 1 mm of its tolchress and air-cooled. Electric slag welding is by 10 - 12 times more efficient than manual welding. This used in ship repair for the welding of flanges onto shafts and stocks, for published in shafts and stern posts, and for the welding-up of agentutes. There are 4 figures.

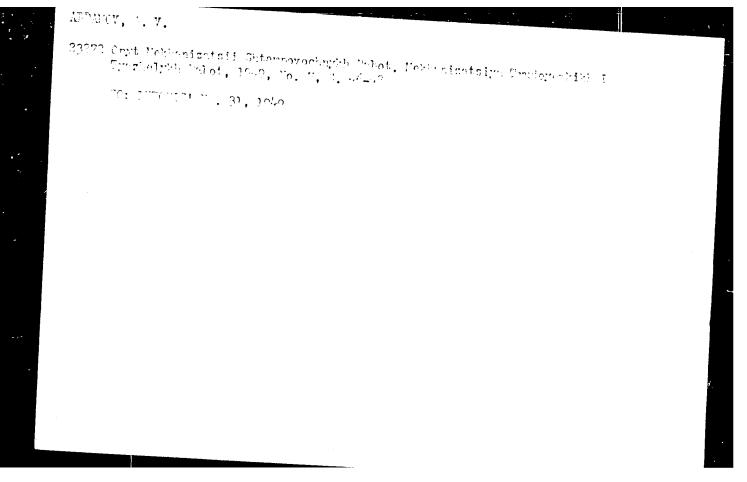
ABSUCIATION: Odesskiy sudoremoninyy zavod no. 1 (Odessa Star Separa Plant no. 1)

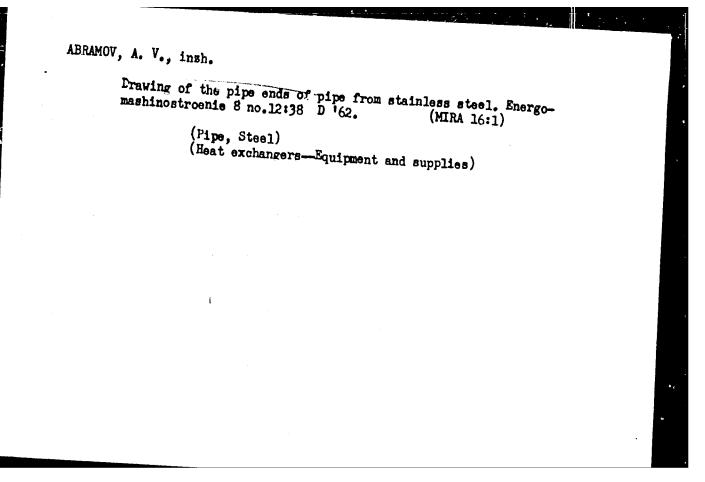
Card 2/2

ABRAMOV, A.T., inzh.

Using TSCh-4 electrodes in ship repairs. Svar. proizv. no.6:2% Je. '63. (MIRA 16:12)

1. Odesskiy sudoremontnyy zavod No.1.





ABRANICO, MCEKSAN De VASILYEURA

PHASE I BOOK EXPLOITATION

755 L'vov, Dimitriy Sergeyevich, Rozhdestvenskiy, Yuriy L'vovich, Abramov, Aleksandr Vasil'yevich, Litvak, Lev Kosilevich

Shtampovka kol'tsevykh zagotovok (Pressforming of Annular Parts)
Moscow, Mashgiz, 1958. 182 p. 4,500 copies printed.

Reviewer: Zvorono, B. P., Candidate of Technical Sciences; Ed.: Mezhova, V. A., Engineer; Tech. Ed.: Gerasimova, Ye. S.; Managing Ed. for literature on heavy machine building (Mashgiz): Golovin, S. Ya., Engineer.

PURPOSE: This book is intended for production engineers, designers, technicians and students specializing in pressforming

COVERAGE: The authors analyze the coefficient of utilization of metals in manufacturing annular blanks for rolling-contact bearings. They present the latest work methods developed by bearing plants which aim to produce blanks of good dimensional accuracy. Advanced pressforming and forging methods used in the

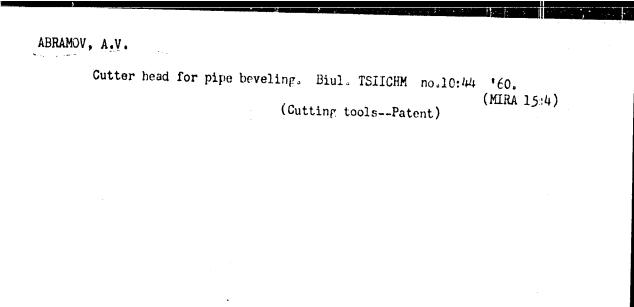
Card 1/6

Pressforming of Annular Parts manufacture of precision annular blanks are describe are 22 references of which 18 are Soviet, 3 English,	55 ed. There
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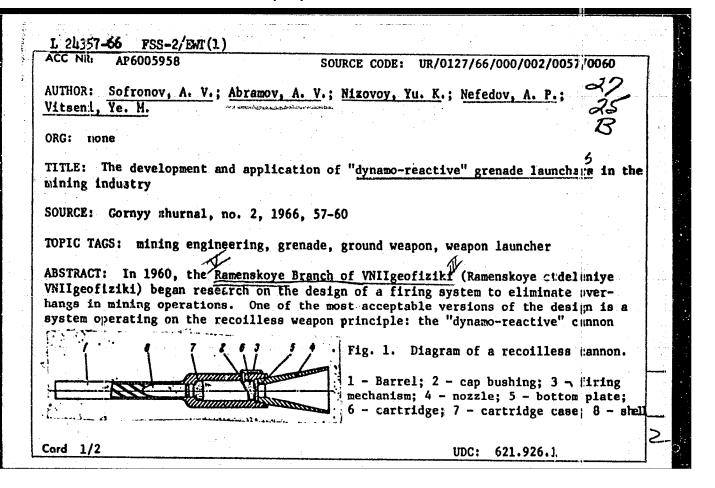
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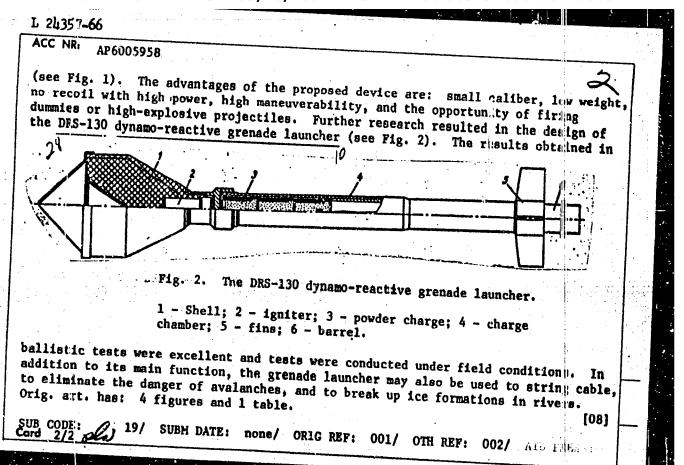


PREDTECHENSKIY, A.A.; ABRAMOV, A.V.; TARANELKI, V.A.

Stratigraphy of the Pre-Cambrian formations of the Lagran Sayan Mountains. Trudy SNIIGGIMS no.29:20-26 64.

(MIRA 18:3)



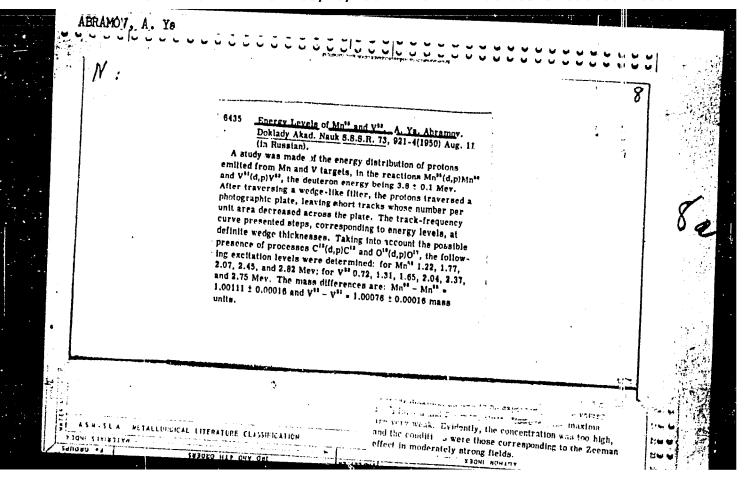


Treatment of isolated fracture of the stermum by fixation with a metal nail. Ortop., travm. i protez. 20 no.5:56-57 My '59.

(STAINUM, fract. (MIRA 12:9)

osteosynthesis with metal nail in isolated fract. (Rus))

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	PROCESSES AND PROFESTIES INDEX	AND 4 IN COLUMN
	Investigation of the secondary electron emission of mice. M. S. Kosman, A. Va. Abramov and B. F. Guriley. J. Fight. Theory, They	
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	v. for Fa. The Montton effect was established for mica and aluminum oxide. F. H. Rathmann	
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FITHOR:

Abramov, A. Ya., Kononovich, L. T. S0V/32-24-8-19/43

TITLE:

The Use of autorediography in Investigating Non-Transparent Objects (Frimeneniye avtoradiografii k issledovaniyu

neprozrachnykh ob"yektov)

E RIODICAL:

Zevodskaya Laboratoriya, 1958, Vol. 24, Nr 8, pp. 965-965(USSR)

RASTRACT:

The so-called track-autorodiography differs from the usual contract-radiography in that the distribution of 4... radioactivity is studied not from the blackening of the enulsion but from the single tracks which the radiation produces in the comission. Turthermore, the quantitative determination of the distribution is not carried out shotometrically, but by a calculation of the tracks. The method has several disadvantages, but does have the advantage that exceptionally small amounts of radioactive isotopes can be used. This method was used to investigate the distribution of the radioactive lead isotope (ThB) in lead-antimony alloys. In the given analytical procedure it is mentioned that a photographic emulsion (type "R from MTKFT) was used in thicknesses of 10 μ and 15-20 μ. It was observed that the best experimental results were obtained when a greater portion of the bolf-life

0/13 1/2

The Use of Autoradiography in Investigating Non-Transparent Objects SOV/32-24-8-19/43

wis used for investigation, in which asse the time of $\psi {\bf x}$ posure can last 6 - 8 days. These investigations were purely methodical in nature, however, and it cannot be assumed that ib-Sb systems formed under all conditions of alley formation will contain nothing but the pure components of the alloy. A. P. Turutov participated in the work. There ere 2 figures.

ASCOCIATION: Laningredskiy telhnologicheskiy institut (Leningrad Pachnological Institute)

Aug I g

18(7)
AUTHORS:

Abramov, A. Ya., Kononovich, L. I.

SOV/32-25-9-20/53

TITLE:

Determination of Solubility of Lead in Antimony According to the Method of Tracer Counting

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 9, pp 1081-1083 (USSR)

ABSTRACT:

The method already described (Ref 1) for investigating nontransparent objects with the aid of "tracer autoradiography" can also be used for the determination of a slight solubility of the components in polyphase systems. As the data from publications concerning the solubility of lead in antimony are very contradictory (Ref), the above mentioned method was used for these determinations. The atoms of the solved substance were directly counted. A small quantity of radioactive lead was added to the alloy Sb - Pb and a liquid photoemulsion (NIKFI Type BL R.) was then applied to the carefully pre-treated ground specimens.

A. P. Turutov developed the emulsion and counted the traces of Pb made visible in the Sb by the &-rays with a microscope (magnification of 600). The computations were made by taking into consideration the radioactive Bi which was present due to the application of a radioactive lead (produced from an active

Card 1/2

Determination of Solubility of Lead in Antimony According to the Method of Tracer Counting SOV/32-25-9-20/53

precipitate of thorium emanation) (Table). From the diagram obtained (Fig) for an alloy with 80% Sb and an alloy with 60% Sb it can be seen that Pb is soluble in antimony by 7.6 - 9.6 wt% or 4.6 - 5.6 atom%. There are 1 figure, 1 table, and 2 Soviet references.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut (Leningrad Technological Institute)

Card 2/2

Method for calculating the solubility of metals from the radiation distribution. Law, eye, acheb. Law, from the radiation of the calculation of th

ACC NR: AR6033115

SOURCE CODE: UR/0137/66/000/007/1043/1043

AUTHOR: Abramov, A. Ya.; Semenov, V. Ye.

TITLE: Changes in microhardness during strengthening of metals and alloys by nuclear-particle radiation

SCURCE: Ref. zh. Metallurgiya, Abs. 71276

REF SOURCE: Tr. Leningr. tekhnol. in-ta tsellyulozno-bum. prom-sti, vyp. 18, 1965, 175-161

TOPIC TAGS: plastic deformation, microhardening, alloy steel, microhardness, metal strengthening, metal irradiation, nuclear radiation, ion/ShKh15 steel, P18 steel, U8 steel

ABSTRACT: Different grades of steel in various initial states were exposed to irradiation with alpha and beta particles in a dose of $2\text{-}10^{10}$ and $3\text{-}10^{11}$ per 1 cm², and with gamma rays from a $\mathrm{Co^{60}}$ source of an 0.75 m/curie activity. Changes in microhardness (M) were then studied for 100 days. Irradiation with a $2\text{-}10^{10}$ dose of alpha particles with an energy of 5 and 15 Mev at 20C resulted in an increase of M in preannealed ShKh15 steel. But no increase of M in hardened ShKh15 and

Card 1/2

UDC: 539, 4, 019, 3;539, 104:669, 14

ACC NR: AR6033115

P18 steel was observed. An insignificant increase of M was observed in U8 steel. Alpha-particle irradiation of nonmagnetic specialty steel in an initial strongly work-hardened state did not produce an appreciable change in M. Its irradiation with gamma rays of 1-Mev and with 2.25-Mev beta particles resulted in a more complex character of the change in M. It is supposed that it is possible to use the effect of nuclear particles on metal as a method of redistributing the dislocations in it, which were produced by the previous manufacturing processes. Experiments have shown that the strengthening effect of irradiation remains even after subsequent strengthening by plastic deformation. It is supposed that Me strengthening by irradiation is a method with potentials, especially in the use of multiply charged ions. L. U. inov. [Translation of abstract]

SUB CODE: 20/

Cará 2/2

PUOACHEV, A.S.; ABRAMOV, A.Ye., retsensent; KORKIN, M.S., nauchnyy redaktor, kandidat tekhnicheskikh nauk; DIUGOKARSKAYA, Ye.A., tekh-

nicheskiy redaktor.

[Collection of problems on shipbuilding drafting] Sbornik zadach posudostroitelinomu chercheniu. Leningrad, Gos. sciuznoe nauchno-

tekhn. izd-vo sudostroit. promyshlennosti, 1954. 235 p.[Microfilm]

(MERA 8:2)
(Naval architecture--Problems, exercises, etc.) (Mechanical drawing)

ABRAMOV, A.Ye., master; FREYMAN, Yu.A., master.

New automatic control arrangement for centralized lubricating systems for hydraulic turbine-generator units. Elek.sta. 29 no.1:77-79 Ja 158.

(Hydraulic turbines--Lubrication)

ABRA	mov B.
COUNTRY	t bulgaria y
CATTISCOX	: Pharmacology and Poxicology, Cardiovascular Archts
APS. JOUR.	: Albertol., No. 5 1959, No. 23205
MISHOR CONTRACT	: Abreunov, B.
(1757. TiTbb	: A Sabstance from the Fruits of Gamm Carvi L. with Hypotensive Action. (Preliminary Report)
OPIC. 1UB.	: Formstalya (Bulg.), 1957, 7, No 3, 32
ABSIRACT	: A substance in the shape of white, ederless and tasteless crystals, with a melting point of this, soluble in water and acids, less so in hot alcomol, and insoluble in organic solvents, was isolated. This substance does not react to glycosides, alkaloids and coumarins, contains nitrogen, and is neutral in an aqueous solution. It is supposed to be an amine acid. Tentative pharmacolom
Card:	1/2
i	45

ABRANOV, B., agronom

Molybdenum helps to obtain better pulse crops. Nauka i pered. op. v sel'khos. 9 no.3:26 Mr 159. (MIRA 12:5)

1. Kolkhoz "Traktor," Urenskogo rayona, Gor'kovskoy oblasti.
(Legumes) (Molybdenum)

-ABRAMOY B.

Wages and production quality. Sots. trud 5 no.5:123-126 My 160.
(MIRA 13:11)

1. Glavnyy inzhener Kupavinskoy tonkosukonnoy fabriki.
(Staraya Kupavna-Wool industry-Quality control)
(Wages and labor productivity)

ABRAMOV, B., sud'ya respublikanskoy kategorii; SIMONOV, V., master sportu, g. Leningrad; MARCHENKO, A.; KRASNOGOLOVYY, V. (g. Riga); BROKTSITTER, G. (Karagandinskaya obl.)

Create, invent, test. Kryl. rod.11 no.12:28-29 D '60.

(MIRA 14:3)

1. Rukovoditel' aviamodel'nogo kruzhka stantsii yunykh tekhnikov g. Kishimev (for Marchenko).

(Airplanes)

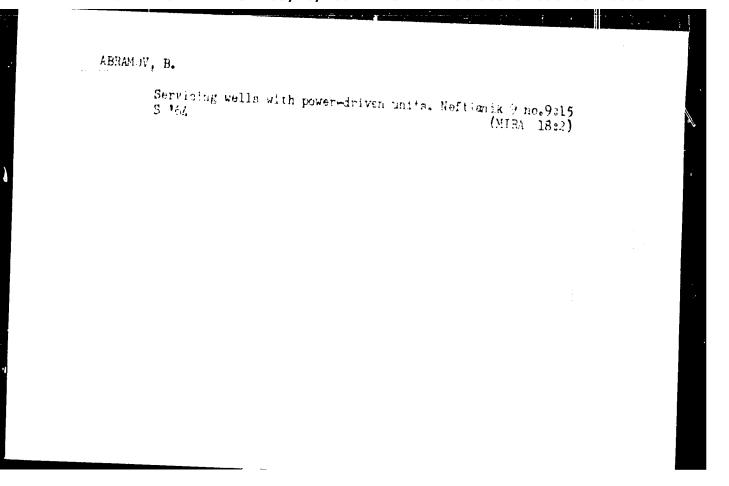
IKOMASOV, A.; ABRAMOV, B., inch.

Let's shorten the time required to build the Votkfask Hydroelectric Power Station. Na stroi.Ros. no.12:6-8 D '61.

(MIRA 16:1)

1. Nachal'nik upravleniya stroitel'stva Votkinskoy gidroelektricheskoy stantsii (for Ikomasov).

(Votkinsk Hydroelectric Power Station)



ABRAMOV, B.: SHUBIN, V.

Peas in northern Gorkiy Province. Zemledelie 24 no.1:45-46 .a (MIRA 13:2)

1. Predsciatel opytno-pokazatel nogo kolkhoza "Traktor", Urenslogo rayona (for Abramov). 2. Glavnyy agronom kolkhoza "Traktor", Urenskogo rayona (for Shubin).

(Gorkiy Province--Peas)

ABRAMOV, B.

Posters of the State Agriculture Publishing House. Okhr. truda i sots. strakh. 5 no.6:30 Je '62. (MIRA 15:7)

(Agriculture machinery—Safety measures) (Posters)

ABRAMOV, B. (Tula)

There is no noise in the chopping section. Okhr. truda i sots. strakh.
5 no.8:39 % '62.

(Metalworking machinery)

(MIRA 15:7)

ABRAMOV, B., inzh.

Concrete muscles of dams. Tekh.mol. 30 no.9:4 '62. (MIRA 15:9)
(Ingur hydroelectric power stations—Dams)

ABRAMOV, B.A.; GUMENYUK, N.U., insh.; RALTER, A.L., kand.tekhn.nauk.

"Nap raising on woolen fabrics" by S. B. Salikhova. Reviewed by B.A. Abramov, N.U. Gumeniuk, A.L. Balter. Tekst.prom. 17 no.12:64-66 D '57. (MIRA 11:1)

1.Glavnyy inzhener Kupavinskoy fabriki (for Abramov)
(Woolen and worsted manufacture)
(Salikova, S.B.)

ABRAMOV, B.A., inzh.

At Kupavna fine-woolen cloth factory. Izebr.i rats. no.7:14-16
J1 '58. (MIRA 11:9)
(Staraia Kupavna--Woolen and worsted manufacture)

137-58-6-11032

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 9, (USSR)

AUTHOR: Abramov, B.A.

TITLE: Conferences on the Quality of Urals Steel Ingots (Soveshch miya

po kachestvu stal'nogo slitka na Urale)

PERIODICAL: Izv. Vost. fil. AN SSSR, 1957, Nr 6, p 147

ABSTRACT: Information is presented on conferences convened in Sv :rd-lovsk in November 1956 and February 1957 by the Stee.-in tot

Quality Study Commission of the Urals Branch of the Acad my of Sciences, USSR. A brief summary is presented of a papt r by A.A. Popov, "Modern Theories on the Crystallization of the Steel Ingot"; the major directions being pursued in improving ingot quality at plants in the Urals are indicated: selection of rational weights, ingot shape, mold construction, conditions for vacuum pouring of steel, and the use of vibration in the statel crystallization process. Note is taken of work done on casting large ingots in vacuum, the introduction of longer ingots, preparation of hot tops from molten slag, development of rolling of

heat-resistant steel, etc. 1. Steel--Production 2. Steel -Processing

Card 1/1 3. Steel--Crystallization 1.N.

ARRANOV, B.A., insh., nauchnyy rod.

[Full use of chromites and limonites from the Serov deposit]
Komplekance ispol'sovanie burckhromistykh rud Serovskogo
mestoroshdeniia. Sverdlovsk, TSentr.biuro tekhn.informatsii.
1959. 158 p. (MIRA 1454)

1. Institut metallurgii Ural'skogo filiala Akademii nauk SSSR. (Serov region--Iron ores) (Chromite)

ABRAZ	nov, B.A.	The second secon	de la serie		
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REVEBTSOV, V.P.; ABRAMOV, B.A.; TANTSYREV, V.V.; ZAYTSEVA, Ye.I.

Results of using ferromanganese and manganese—allicon from Pelunochnoye deposit ores in the production of steel. Trudy Inst. met. UFAN SSSR no.7:183-199 '61. (MIR. 16:6) (Manganese alloys—Testing) (Steel—Metallurgy)

REVEBTSOV, V.P.; ABRAMOV, B.A.; NAGOVITSYN, D.F.; LEBEDEV, A.A.; OSIPOV, G.V.; TANTSYREV, V.V.; ISUPOV, V.F.; ZAYTSEVA, Ye.I.

quality of manganese ferroalloys from ores of the Polunochnoye deposit. Stal' 21 no.9:806-809 S. 61. (MIRA 14:9)

1. Institut metallurgii Ural'akogo filiala Akademii nauk; Nizhne-Tagil'skiy metallurgicheskiy kombinat i Kombinat im. Serova.

(Ferromanganese) (Polunochnoye region-Manganese ores)

VATOLIN, N.A. (Sverdlovsk); YESIN, O.A. (Sverdlovsk); ABRAMOV, B.A. (Sverdlovsk)

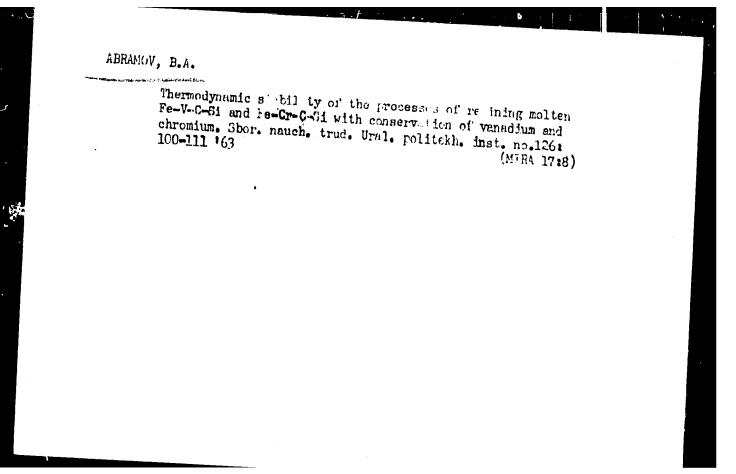
Investigating iron-vanadium melts by the electromotive force method. Izv.AN SSSR. Otd.tekh.nauk. Met.i topl. no.4:51-55
Jl-Ag '62. (MIRA .5:8)

(Iron-vanadium alloys-Electric properties)

ABRAMOV, B. A., KOGAN, V. I.,

"Transfrer of Impurity Resonance Radiation in Low-density Plasma,"

report presented at the 6th Intl. Conf. on Ionization Phenomena in Gas:s, Paris, France, 8-13 Jul 63



AUTHORS:

Abramov, B.G., Pogorelyy, A.I.

SOV-128-58-8-13/21

TITLE:

The Molding of Worm Gear Wheels and Pinions With Cas; Cogs (Formovka chervyachnykh koles i shesteren s litym zu om)

PERIODICAL:

Liteynoye proizvodstvo, 1958, Nr 8, pp 20-21 (USSR)

ABSTRACT:

A method is described in the article, utilizing molding patterns and model segments, in the production of smill numbers of worm gear wheels and pinions. The model egment is shown in Figure 1, the device for molding in Figure 2. The described method is recommended for single and small-series production in repair shops, etc. There are 4 sets

of diagrams.

1. Gears--Molding

Card 1/1

KOVAL CHUK, P. Ye.; ABRAMOV, B.K.; IVASHCHENKO, Yu.F.

Potential savings in electron tubes. Vest. sviazi 23 no.3:16 lr 163. (MIRA 16:3)

l. Rabotniki smeny ulitrakorotkikh voln radiostantsii Kiyevsko roteletsentra.

(Electron tubes) (Radio, Shortwave—Equipment and supplies)

ABRACTON, B. L.

FA149743

USSR/Engineering - Mechanics Sep/Oct 49
Materials Testing

"Torsion of Prismatic Rods With Cruciform Transverse Cross Section," B. L. Abramov, 6 pp

"Prik Mat i Mekh" Vol XIII, No 5

Gives solution of the problem of torsion of prismatic rods with cruciform cross section by using N. Kh. Arutyunyan's method to solve Poisson's equation. Formulas obtained determine stresses and rigidity of profile for various ratios of b/d, starting from b/d equals one (square cross section). Submitted 21 Jun 49.



149743

ABRAMOV, B.M., kand. tekhn. nauk, dotsent

Using link mechanisms for approximate plotting of given trajectories. Izv. vys. ucheb. zav.; mashinostr. no.7: (MIRA .8:12)

1. Submitted September 3, 1963.

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000100210005-2

APPAICON B. M.

Oct 48

USSE/Engineering

Machanics

Mathematics, Applied

"Problem of the Motion of Machines Under the Action of Given Forces," Acad I, 1. Artobolevskiy B. M. Abramov, Inst Mach Studies, Acad Sci USSE, 32 pp

"Iz Ak Hauk ESER, Otdel Tokh Hauk" No 10

General equation of motion of a machine or mechanism with one degree of freedom can be written as follows: $M = \frac{M}{D} = \frac{1}{2} + \frac{M}{2} + \frac{M$

where Molloment of reduced motive forces,

 M_S =Moment of reduced resistance forces, J_{FS} reduced moment of inertia of mechanism, and Q = angle of revolution of reduction link. Solution presents difficulties in many cases, especially when the moment M_D and M_S depend, not only on the angle of revolution G but also on other variables. Explains method for overcoming such difficulties. Submitted July h_S .

PA 21/49729

